USER MANUAL

EURONET ATB TOOL APPLICATION
&
SERIAL DEVICE INSTALLATION

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REVISION HISTORY			
Version	**Date**	**Description**	**Author**
1.0	Dec 25 2006	Initial Document	Christian Lambert
1.1	Aug 13 2007	ATB Tool 2.0 update Sections affected – 3.1, 3.2, 3.4	Vaishal Sheth
1.2	Sep 05 2008	Quatech SDS & related documentation update	Christian Lambert
1.3	Sep 17 2008	Sections changed 4.3.3, 4.4.1, 4.4.2 for button label, LoadLF to Load LFP	Vaishal Sheth

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1 Introduction

The purpose of this document is to provide Help to the user for using the ATB TOOL Application.

2 IER 723-IP Module

2.1 Description

The IER 723-IP module allows communication with any IER terminal over Ethernet/TCP-IP networks. Used as a printer server with IER ATB printer, it makes possible printer sharing of an equipment with a single serial interface.

2.2 Configuration

2.2.1 TCP/IP

The IER 723-IP print server is easily configured with remote device management tools. The TCP/IP Settings are described in the following table:

FIELD	DESCRIPTION
IP Address	The Internet network address for the print server.
Subnet Mask	This address identifies the number of bits used for the subnet and host portions of the address.
Default Gateway	This address is used if the routers on your network have a default gateway address, and, that address needs to be listed for accessing the print server printers.
Base Port Number	The base TCP port number assigned to the print server. This is used when the daemon is in the workstation and the print job is sent over TCP/IP. The actual TCP port number is always one higher than the base number. For example, the default base number of 10000 corresponds to an actual port number of 10001.
DHCP (Dynamic Host Configuration Protocol)	This identifies whether DHCP is enabled or disabled. DHCP provides a mechanism for delivering IP addresses to hosts through an IP network, and, for the delivery of other configuration parameters, such as a subnet mask or gateway address. Not all NICs support DHCP.
IP Address in NVRAM	This identifies if the NIC will save the IP address in its Non-Volatile RAM. If this is enabled, the NIC will use this stored IP address every time it is powered up. The NIC will

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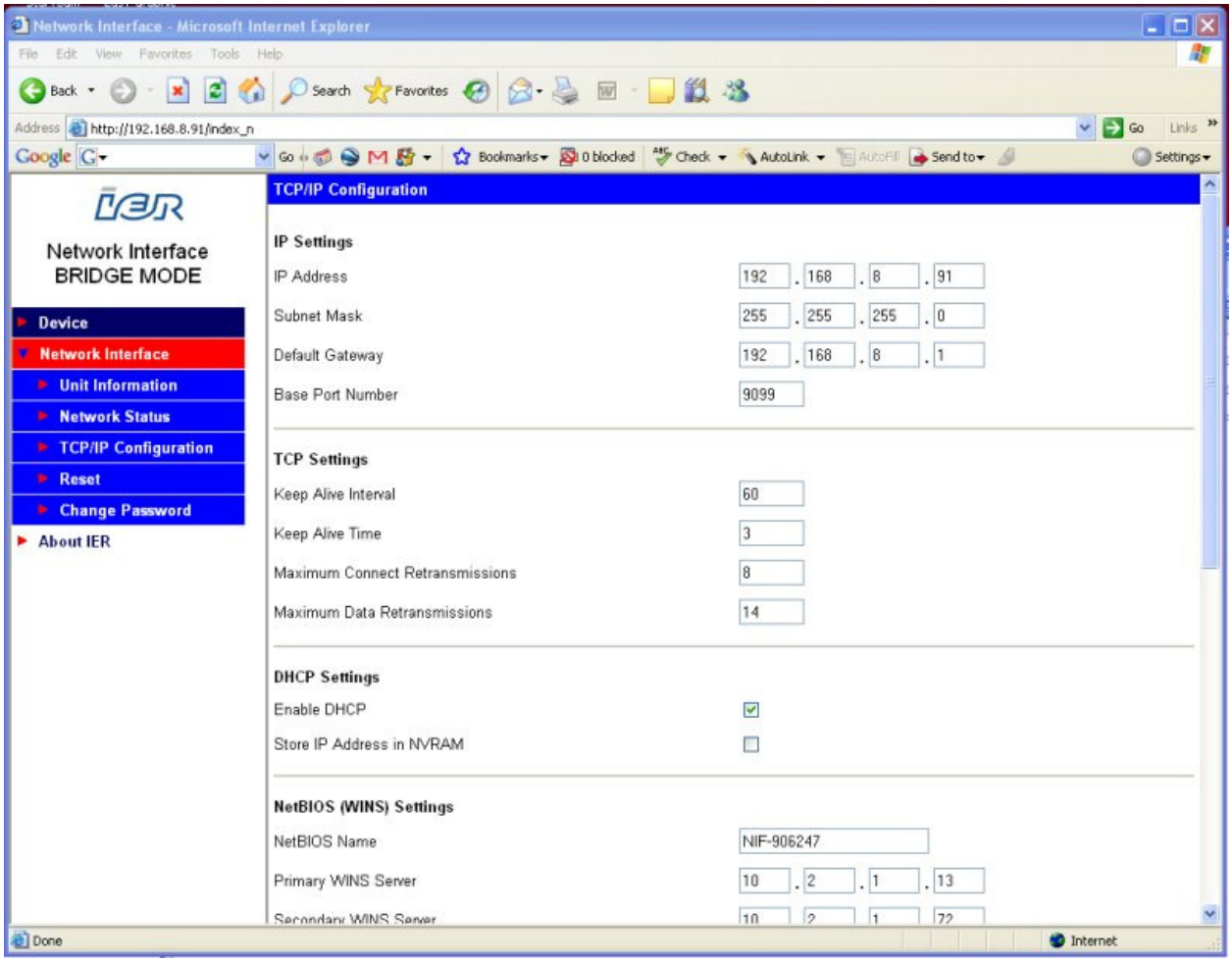
	not send a DHCP request if this is turned on and an IP address is stored. (A request will be sent if there is no IP address stored.)
Banner	This displays whether the LPD banner page option is turned on or off.

For ATB implementation we will use:

- Base Port Number 9099
- DHCP disabled
- IP Address in NVRAM to setup a static IP Address.

    - Setting the base port number

Connect using the web GUI from IER tool you can go to Network Interface / TCPIP configuration:



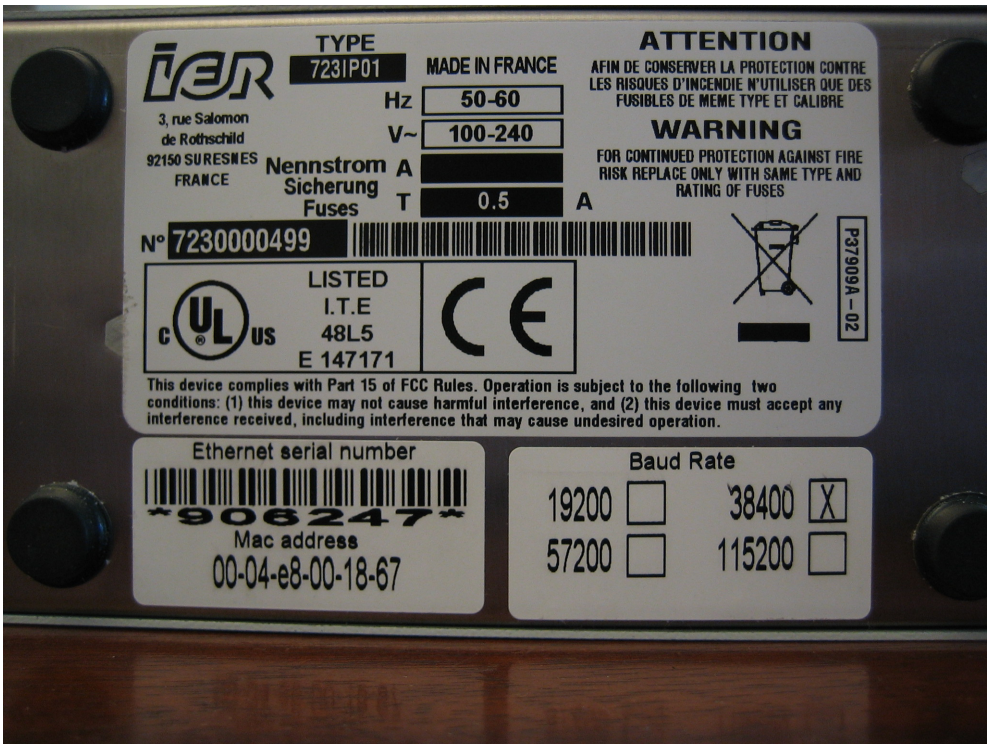
A password is needed to complete this operation. The default login and password are both 437282.

2.2.2 IER 723-IP Serial Port Parameters

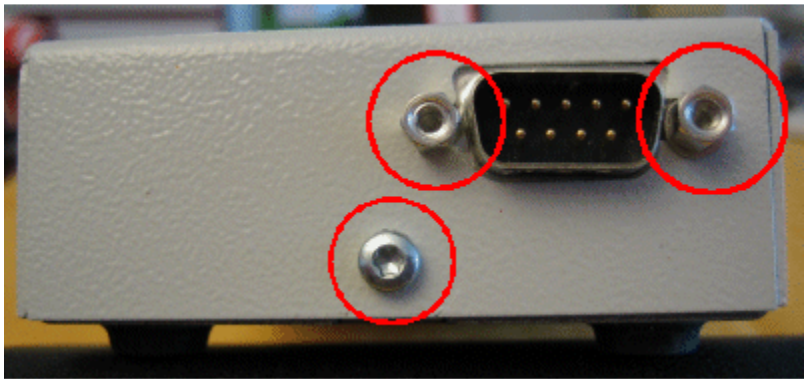
In order to communicate with the printer, both IER 723-IP module and IER printer must use the same serial port configuration. The network interface IER 723-IP is used as a simple bridge, serial parameters of the IER device must be as follow:

- Speed: 19200 bauds
- Data: 8 bits
- Parity: none
- Stop: 1 bit
- RTS: ready / busy
- DTR: power on

The device is provided with a setting speed printed in the back.

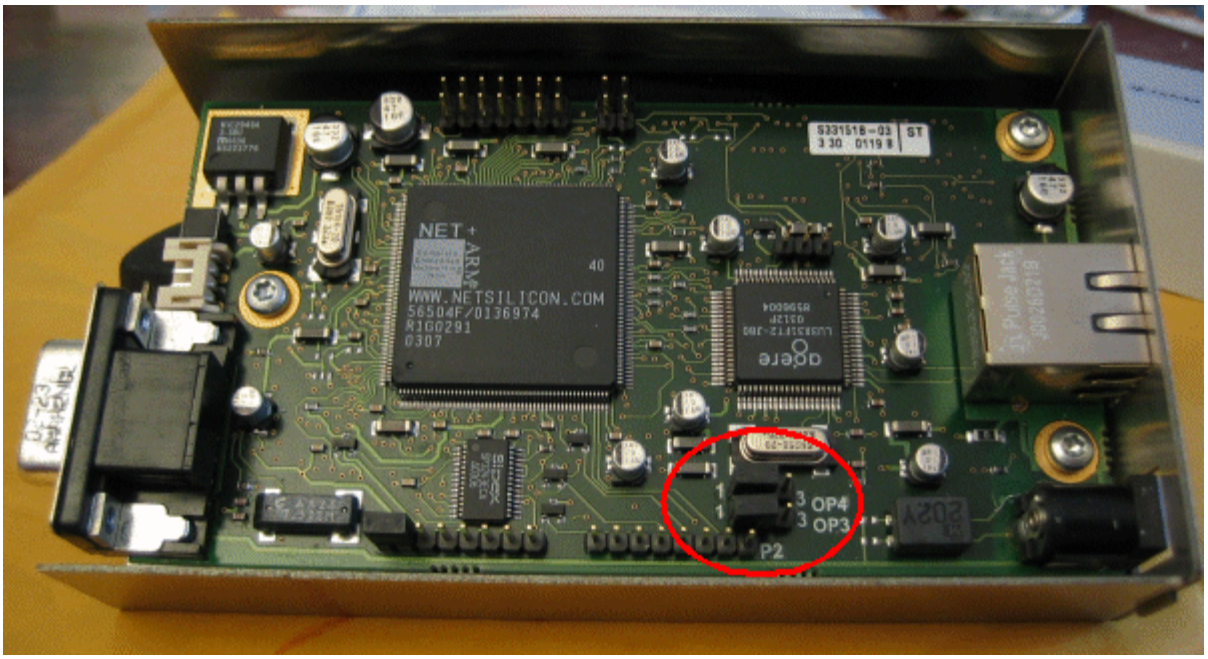

TYPE
723IP01
MADE IN FRANCE
ATTENTION
AFIN DE CONSERVER LA PROTECTION CONTRE LES RISQUES D'INCENDIE N'UTILISER QUE DES FUSIBLES DE MEME TYPE ET CALIBRE
Hz 50-60
V~ 100-240
WARNING
FOR CONTINUED PROTECTION AGAINST FIRE RISK REPLACE ONLY WITH SAME TYPE AND RATING OF FUSES
3, rue Salomon de Rothschild
92150 SURESNES
FRANCE
Nennstrom A
Sicherung
Fuses T 0.5 A
N° 7230000499
P37909A – 02
LISTED
I.T.E
48L5
E 147171
This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Ethernet serial number
906247
Mac address
00-04-e8-00-18-67
Baud Rate
19200 ☐ 38400 ☒
57200 ☐ 115200 ☐

2.2.2.1 IER 723-IP Serial Interface Speed Configuration



First remove the 3 bolts (Torx 10 needed for the one at the bottom) in order to open the box.

The asynchronous link is of the RS232 type, and allows transmission speeds from 19,200 Baud to 115,000 Baud. The Baud rate is selected by adequately positioning the two jumpers OP3 and OP4. Factory default jumper configuration corresponds to 19,200 Baud.



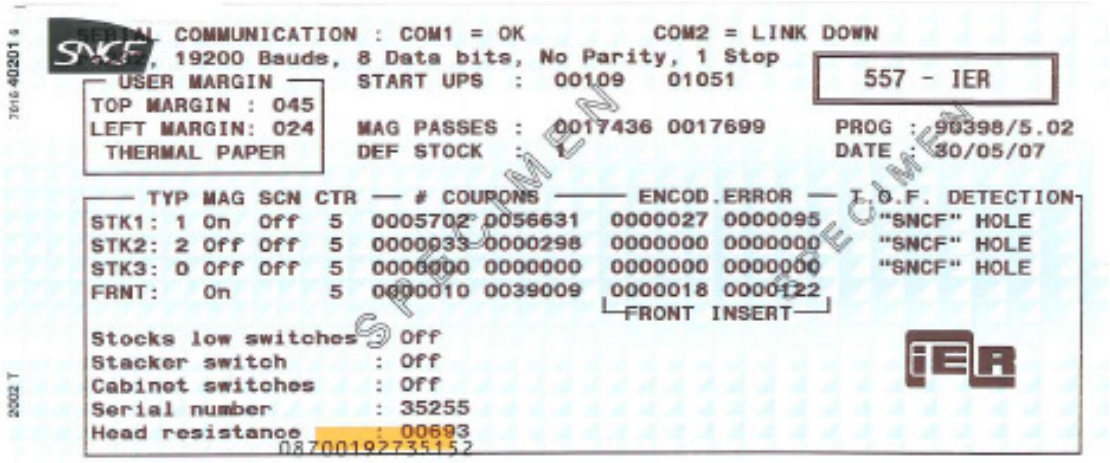
		Internal Card P/N S33143B	External Card P/N S33151B
Jumper OP3	Jumper OP4	Speed (Baud)	Speed (Baud)
1-2	1-2	19200	19200
2-3	1-2	57600	38400
1-2	2-3	38400	57600
2-3	2-3	115000	115000

2.2.3 IER 557 Serial Port Parameters

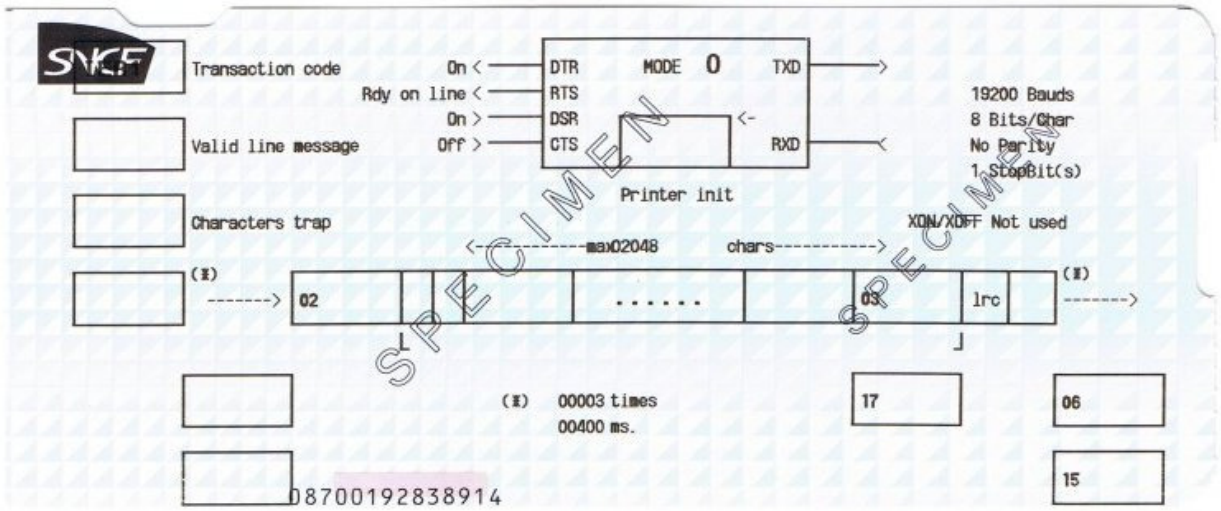
We have to reconfigure the parity, which is set to even (factory default), and the waiting delay. To set the parity on the printer, you need to enter the configuration printer using the dongle (bouchon SNCF).

1) Connect the dongle
2) Turn off the line
3) Press menu
4) Enter the password (22556 for IER557 SB01)
5) Press enter
6) Go till Interface?
7) Press enter
8) Go till parity
9) Press enter
10) Go till **none**
11) Press enter
12) Press exit
13) Done for parity change
14) Go till Protocol?
15) Press enter
16) Go till Waiting delay
17) Press enter
18) Go till **.4 seconds (400 ms)**
19) Press enter
20) Done for waiting delay change
21) Press exit
22) Remove dongle
23) Turn off the printer
24) Reconnect IER723IP
25) Turn on the printer
26) Done

If you print a communication status, you must have:


SERIAL COMMUNICATION : COM1 = OK COM2 = LINK DOWN
19200 Bauds, 8 Data bits, No Parity, 1 Stop
557 - IER
USER MARGIN
TOP MARGIN : 045
LEFT MARGIN: 024
THERMAL PAPER
START UPS : 00109 01051
MAG PASSES : 0017436 0017699
DEF STOCK : 1
PROG : 90398/5.02
DATE : 30/05/07
TYP MAG SCN CTR — # COUPONS — ENCOD.ERROR — T.O.F. DETECTION
STK1: 1 On Off 5 0005702 0056631 0000027 0000095 "SNCF" HOLE
STK2: 2 Off Off 5 0000033 0000298 0000000 0000000 "SNCF" HOLE
STK3: 0 Off Off 5 0000000 0000000 0000000 0000000 "SNCF" HOLE
FRNT: On 5 0000010 0039009 0000018 0000122
FRONT INSERT
Stocks low switches : Off
Stacker switch : Off
Cabinet switches : Off
Serial number : 35255
Head resistance : 00693
0870019273515

If you print a protocol status, you must have:



2.3 Installing Network Interface IER 723-IP to an IER Device

The IER 723-IP feature a DB9 connector and a 10/100 RJ45 Network interface.

2.3.1 Parts Needed

- The network interface IER 723-IP
- A 5v–2 amp power supply (included in the package)
- A RS232 cable (included in the package)
- A standard CAT 5 UTP or STP network cable with an RJ-45 connector (not provided)
- The IER 723-IP CD-Rom (included in the package)

2.3.2 Installation

1. Connect the RS232 cable to the network interface IER 723-IP by the mean of the sub-D 9 pin socket
2. Connect the RS232 cable to the IER device by the mean of the sub-D 25-pin socket
3. Connect the network interface IER 723-IP to your network using a CAT 5 UTP or STP network cable
4. Connect the 5v power supply onto the network interface IER 723-IP
5. Configure network parameters using the IER 723-IP User's Manual and the files contained in the CD-ROM

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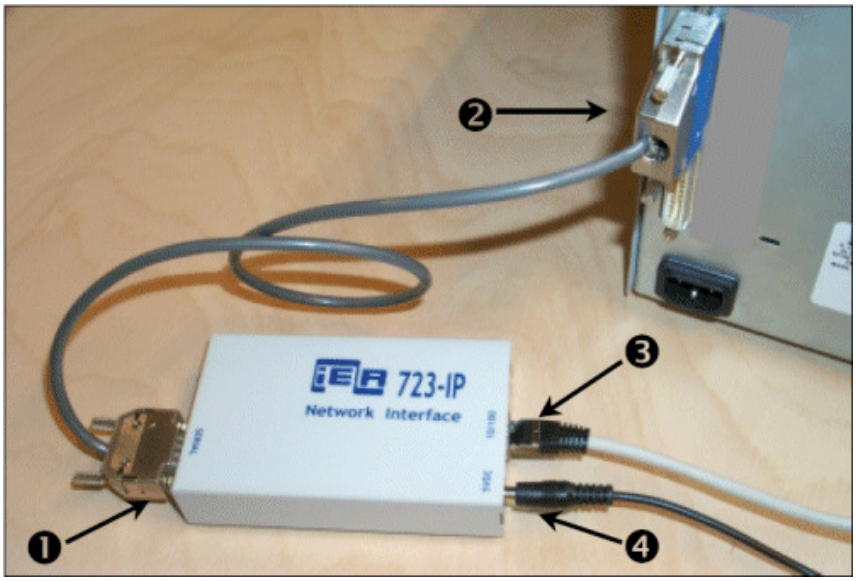
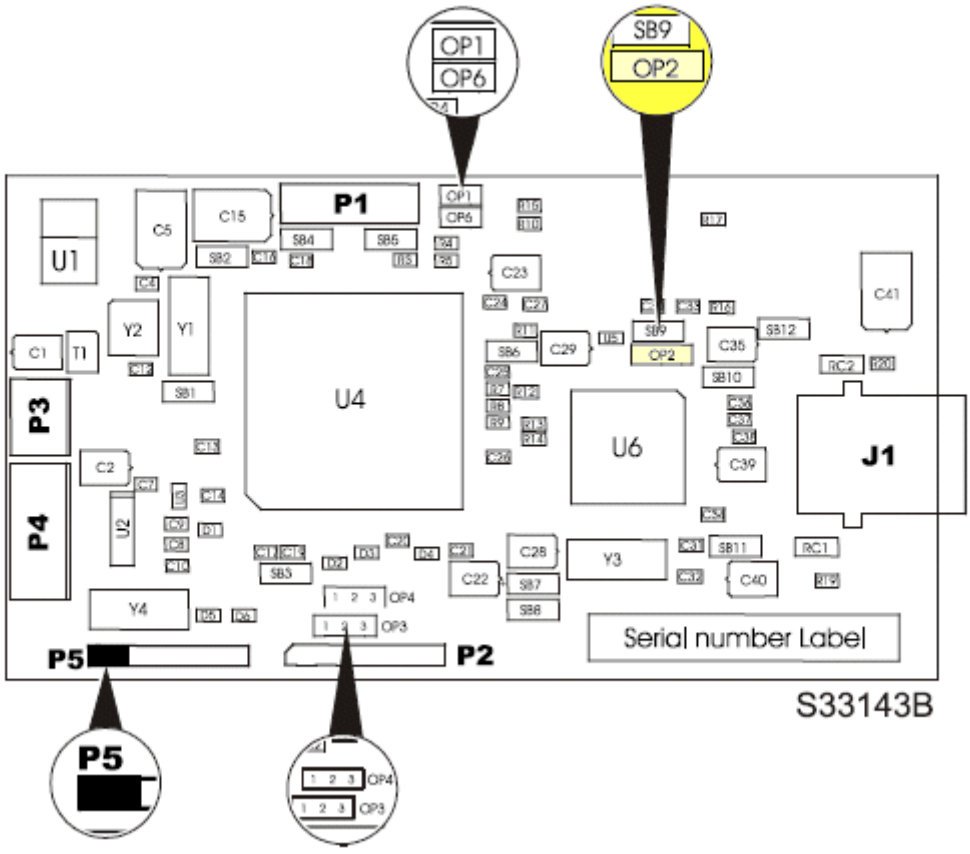


2.4 IER 723-IP Reset to factory defaults



The Network interface option Card can be restored to factory default conditions by jumper OP2. The function of OP2 is to reconfigure NVRAM. Do this when a unit is moved from one site to another and should be restored to as-new condition.

If the unit is powered up with jumper OP2 in the FACT position [pins 1 & 2] (opposite of the CUST position [pins 2 & 3]), the board resets all parameters to their factory default values. The three quick green flashes followed by the alternating amber and green indications (once per second rate) indicate this. You should then turn off power and shift the OP2 jumper to the CUST or OFF position (opposite of the FACT or ON position). The unit operates normally when you turn the power on again.

3 Quatech Serial Device

3.1 Description

The Quatech Serial device server (SDS) allows communication with any serial device that uses serial communications protocols over Ethernet/TCP-IP networks. Used as a printer server with IER ATB printer, it makes possible printer sharing of an equipment with a single serial interface.

3.2 Configuration

3.2.1 Quatech Serial Device Server User Manual

Refer to SDSUserMaual.pdf found in the same directory as current document (\AtbTool2.1\doc\) for detailed installation steps. Some of the important information is included in subsequent sections.

SSE-100D is the device we intend to use & it has one port. Quatech's SDS ships with device drivers for Windows 2000, Windows NT4, Windows XP, and Linux. Other operating systems can access the SDS using Raw TCP mode or the IntelliSock™ TCP socket services. The SDS implements Quatech's IntelliSock™ TCP socket services. Quatech supplies device drivers for Windows 2000, NT4, XP, and Linux to make the SDS look like it is a built-in COM port.

IntelliSock offers you the option of interfacing directly to the SDS through a TCP socket programming interface rather than using the virtual COM port device drivers. IntelliSock can be used with any operating system that supports TCP/IP communication. *We do not need the power of the IntelliSock interface & will be using the Raw TCP mode, which provides a simple way of using a direct TCP connection with the SDS.* Most device drivers are available for download from the Quatech World Wide Web site at http://www.quatech.com/.

Identify the Ethernet (MAC) address on the product information label located on the bottom of the unit. Ethernet address, hardware address, and MAC address are all equivalent names for a device's unique network address. In the case of an SDS, the first three bytes identify the unit as a Quatech product. The last three bytes are unique to each unit and are assigned when the unit is released from production. Colons separate the bytes. The example of an SDS Ethernet (MAC) address is 00:0B:28:12:34:56

Every device that communicates over the Internet must have a unique IP address. In order for devices to communicate via a TCP connection or a UDP datagram, they must know each other's IP address and port number. The SDS driver automatically sets the unit's port number for you, which by default is 5000 & we will be using the same for communication.

3.2.2 Quatech SDS Serial Port Parameters

In order to communicate with the printer, both Quatech serial device module and IER printer must use the same serial port configuration. Parameters of the Quatech serial device must be as follow:

- Operating Mode: Raw TCP
- Rate Multiplier: Auto
- Performance Selector: Balanced
- Heart Beat Time: 0
- Baud rate: 19200
- Data bits: 8
- Parity: Even
- Stop bits: 1
- Flow Control: None

3.2.3 IER 557 Serial Port Parameters

We will use the factory default parity, which is set to even. But we have to reset the waiting delay on ATB printer. To set this, you need to enter the configuration printer using the dongle (bouchon SNCF).

1) Connect the dongle
2) Turn off the line
3) Press menu
4) Enter the password (22556 for IER557 SB01)
5) Press enter
6) Go till Protocol?
7) Press enter
8) Go till Waiting delay
9) Press enter
10) Go till **.4 seconds (400 ms)**
11) Press enter
12) Done for waiting delay change
13) Press exit
14) Remove dongle
15) Turn off the printer
16) Reconnect Quatech serial device
17) Turn on the printer
18) Done

If you print a communication status, you must have:

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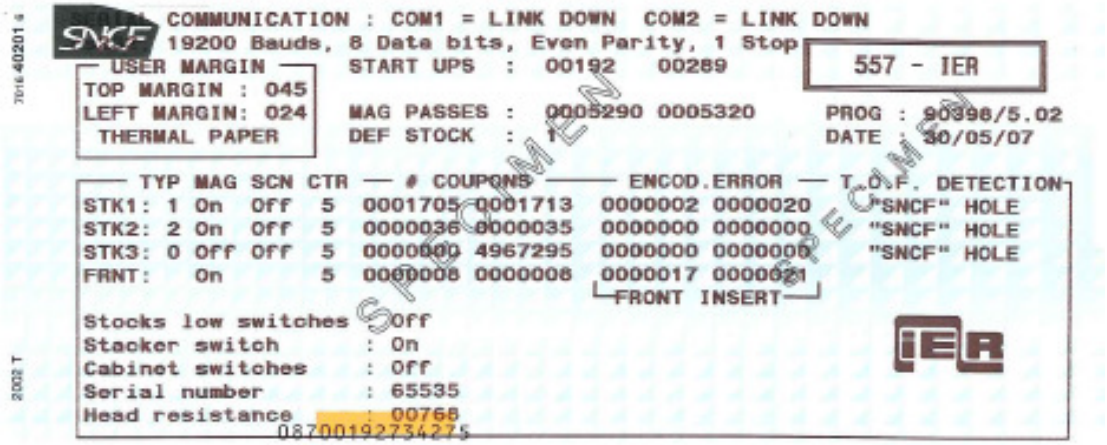
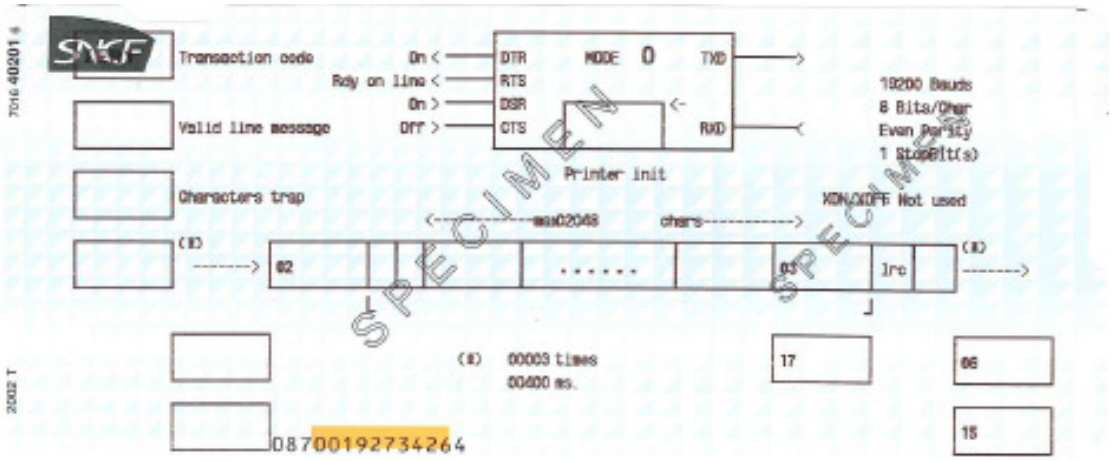

COMMUNICATION : COM1 = LINK DOWN COM2 = LINK DOWN
19200 Bauds, 8 Data bits, Even Parity, 1 Stop
557 - IER
USER MARGIN
TOP MARGIN : 045
LEFT MARGIN: 024
THERMAL PAPER
START UPS : 00192 00289
MAG PASSES : 0005290 0005320
DEF STOCK : 1
PROG : 90398/5.02
DATE : 30/05/07
TYP MAG SCN CTR # COUPONS ENCOD.ERROR T.O.F. DETECTION
STK1: 1 On Off 5 0001705 0001713 0000002 0000020 "SNCF" HOLE
STK2: 2 On Off 5 0000036 0000035 0000000 0000000 "SNCF" HOLE
STK3: 0 Off Off 5 0000000 4967295 0000000 0000000 "SNCF" HOLE
FRNT: On 5 0000008 0000008 0000017 0000021 "SNCF" HOLE
FRONT INSERT
Stocks low switches : Off
Stacker switch : On
Cabinet switches : Off
Serial number : 65535
Head resistance : 00768
08700192734275
SPECIMEN

If you print a protocol status, you must have:



3.3 Installing Quatech SDS to an IER Device

3.3.1 Parts Needed

- The Quatech serial device (SDS)
- A 5v–2 amp power supply (included in the package)
- A RS232 cable
- A standard CAT 5 UTP or STP network cable with an RJ-45 connector (not provided)
- The Quatech CD-Rom (included in the package)

3.3.2 Installation

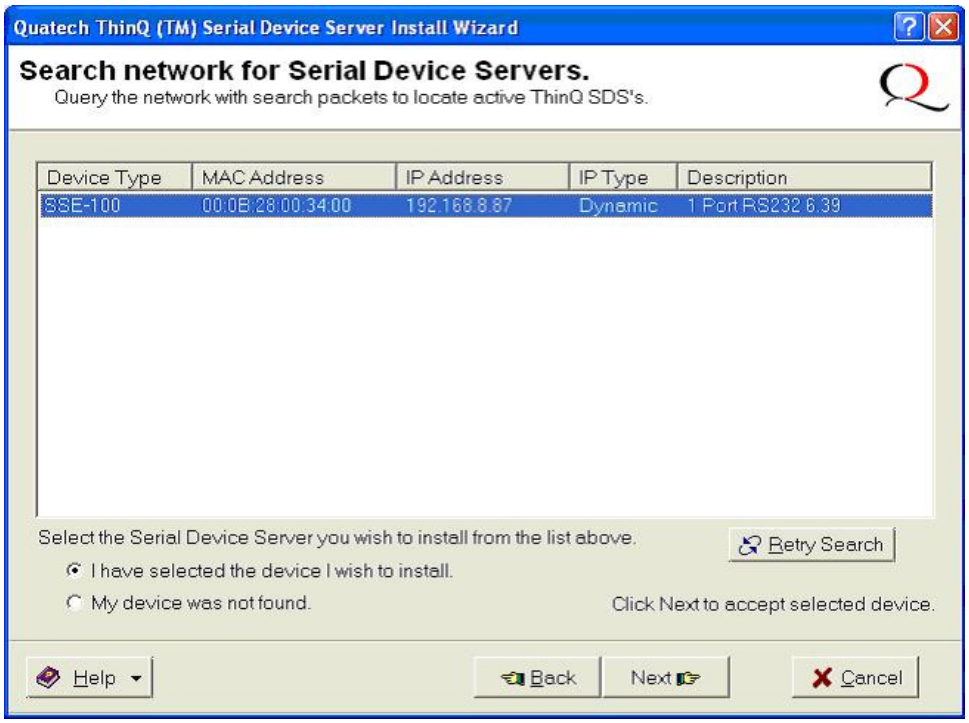
1. Connect the RS232 cable to the Quatech serial device by the mean of the sub-D 9 pin socket
2. Connect the RS232 cable to the IER device (ATB printer) by the mean of the sub-D 25-pin socket
3. Connect the Quatech serial device to your network using a CAT 5 UTP or STP network cable

4. Connect the 5v power supply onto the Quatech serial device
5. Configure network parameters using the Quatech User's Manual and the files contained in the CD-ROM.

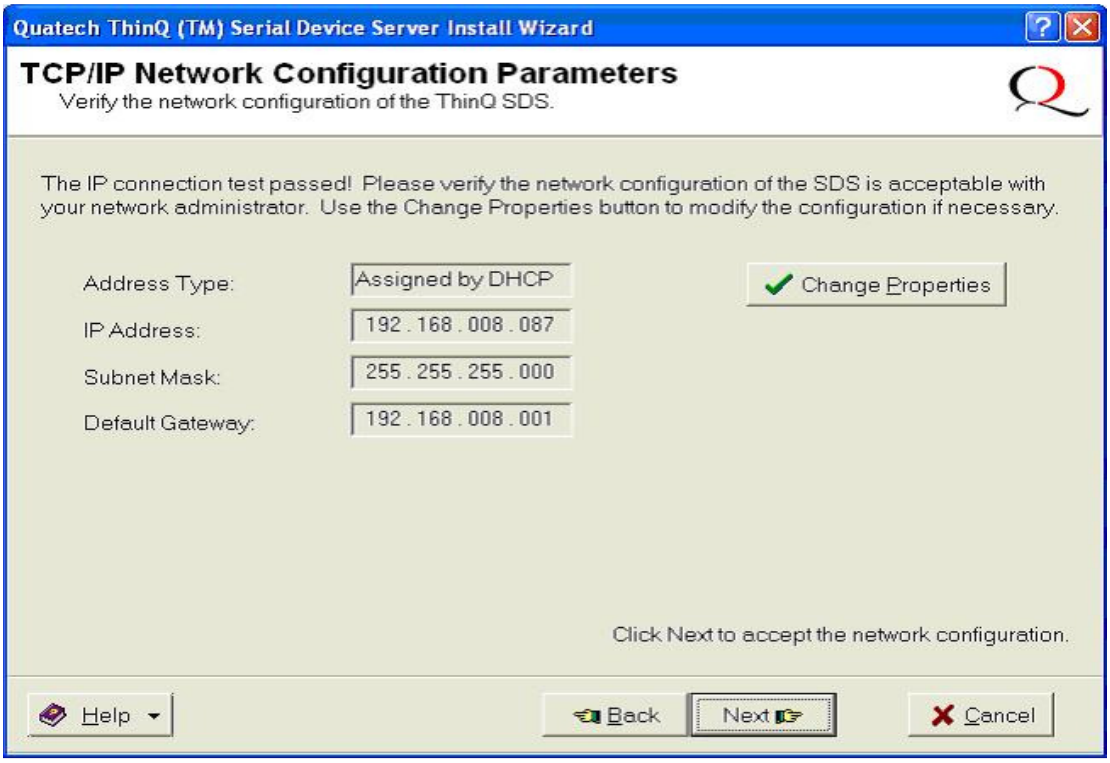
Please refer to below sections under SDSUserManual for detailed information,

- Getting started (page 7) – Contents of the package
- Identifying parts (page 8) - Information about all the connectors, indicator lights & buttons
- Understanding LED codes (page 9) – Communication status & activity of SDS
- Locating serial and network ports (page 10-12) - Information about ports
- Making connections (page 13) – Connecting the device
- Installing the device drivers (page 16 onwards) – SDS installation, SDS needs to be set up for static IP address, below are some important steps under installing the device drivers section.

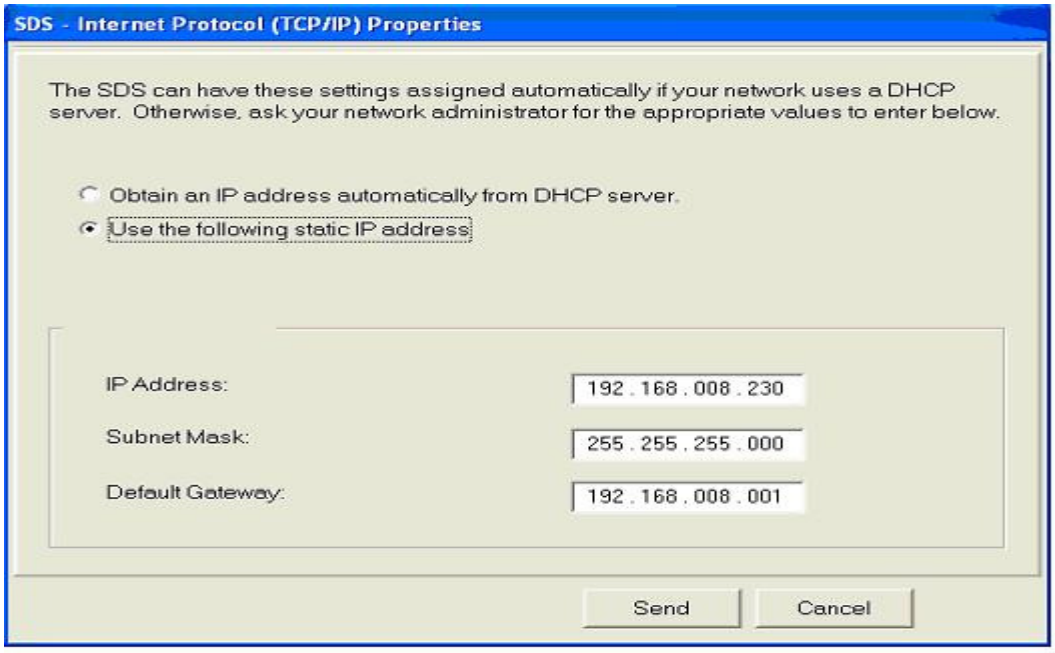
Step 9 – Choose the correct device you want to install based on MAC address (found on the back of the device)



Step 15 – It is recommended that network administrator has already assigned static IP address to be used with the SDS

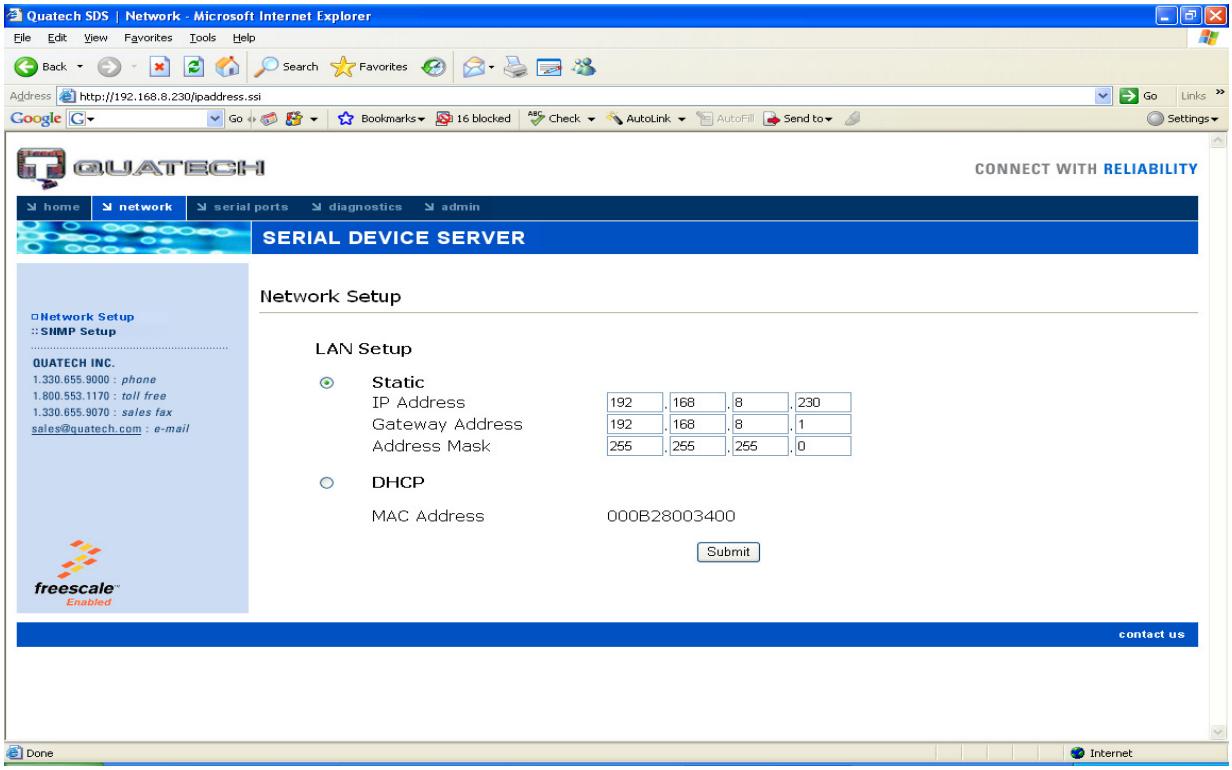

Quatech ThinQ (TM) Serial Device Server Install Wizard
TCP/IP Network Configuration Parameters
Verify the network configuration of the ThinQ SDS.
The IP connection test passed! Please verify the network configuration of the SDS is acceptable with your network administrator. Use the Change Properties button to modify the configuration if necessary.
Address Type:
Assigned by DHCP
Change Properties
IP Address:
192 . 168 . 008 . 087
Subnet Mask:
255 . 255 . 255 . 000
Default Gateway:
192 . 168 . 008 . 001
Click Next to accept the network configuration.
Help
Back
Next
Cancel

Assign the same under step 16

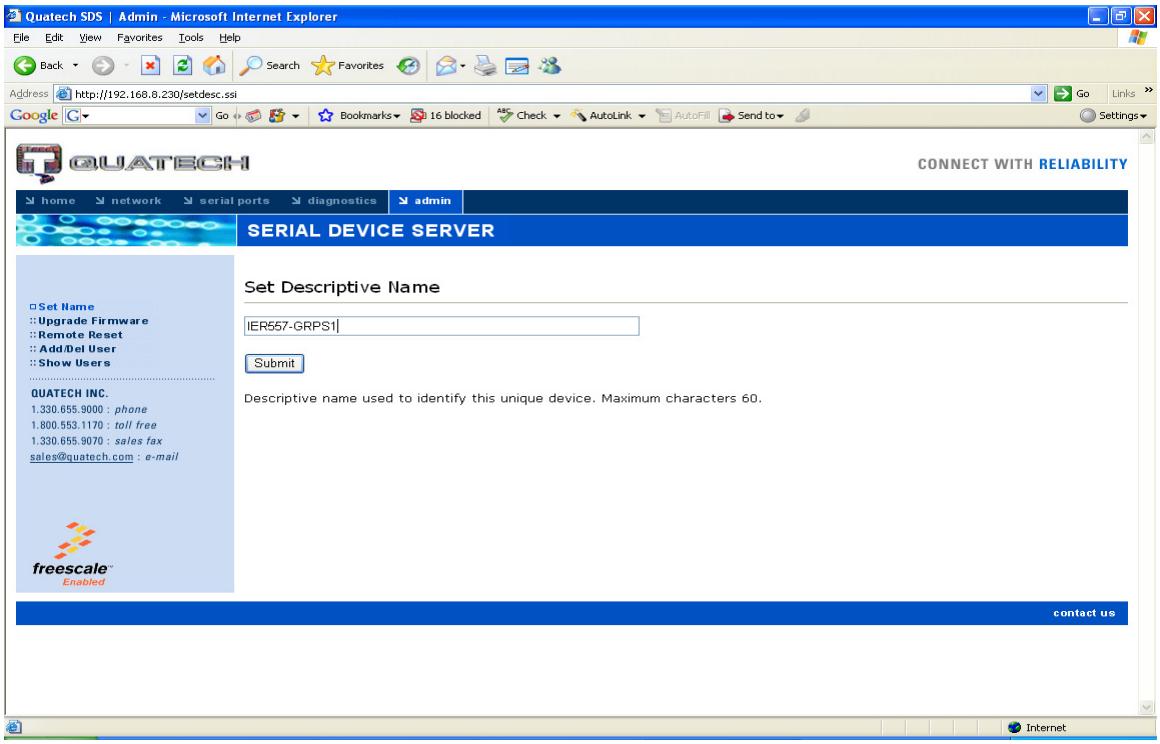

SDS - Internet Protocol (TCP/IP) Properties
The SDS can have these settings assigned automatically if your network uses a DHCP server. Otherwise, ask your network administrator for the appropriate values to enter below.
Obtain an IP address automatically from DHCP server.
Use the following static IP address
IP Address:
192 . 168 . 008 . 230
Subnet Mask:
255 . 255 . 255 . 000
Default Gateway:
192 . 168 . 008 . 001
Send
Cancel

Once the required setup is completed, SDS properties can be accessed through browser. Say, 192.168.8.230 is static IP address assigned with SDS, then type http://192.168.8.230 in the browser. Page will display showing device type and firmware revision.

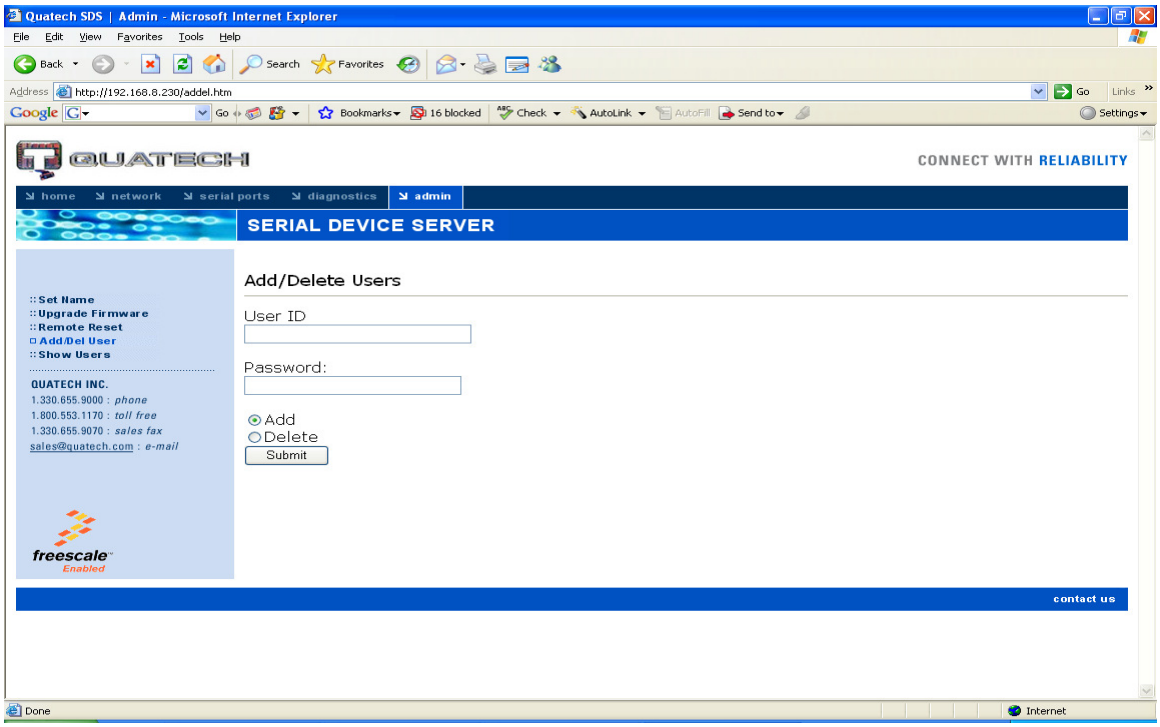
Go to network tab & make sure that network setup is correctly defined.



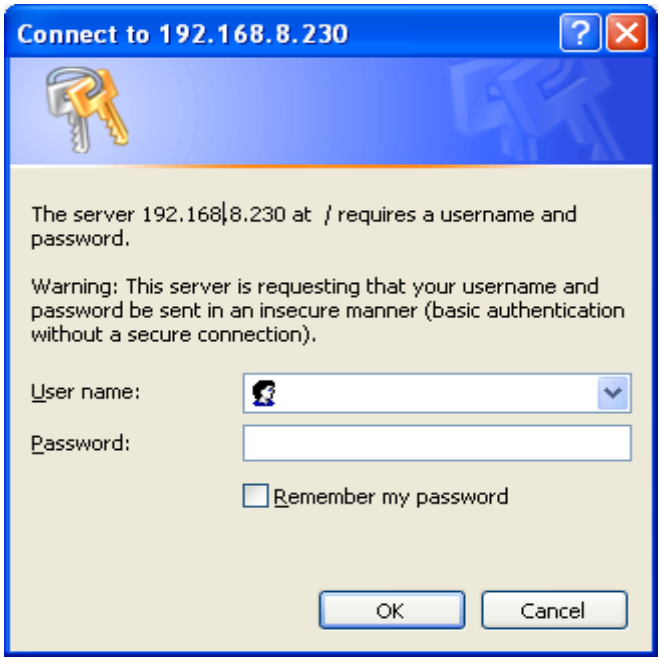
Go to admin tab & define the logical name of the device for identification purpose.



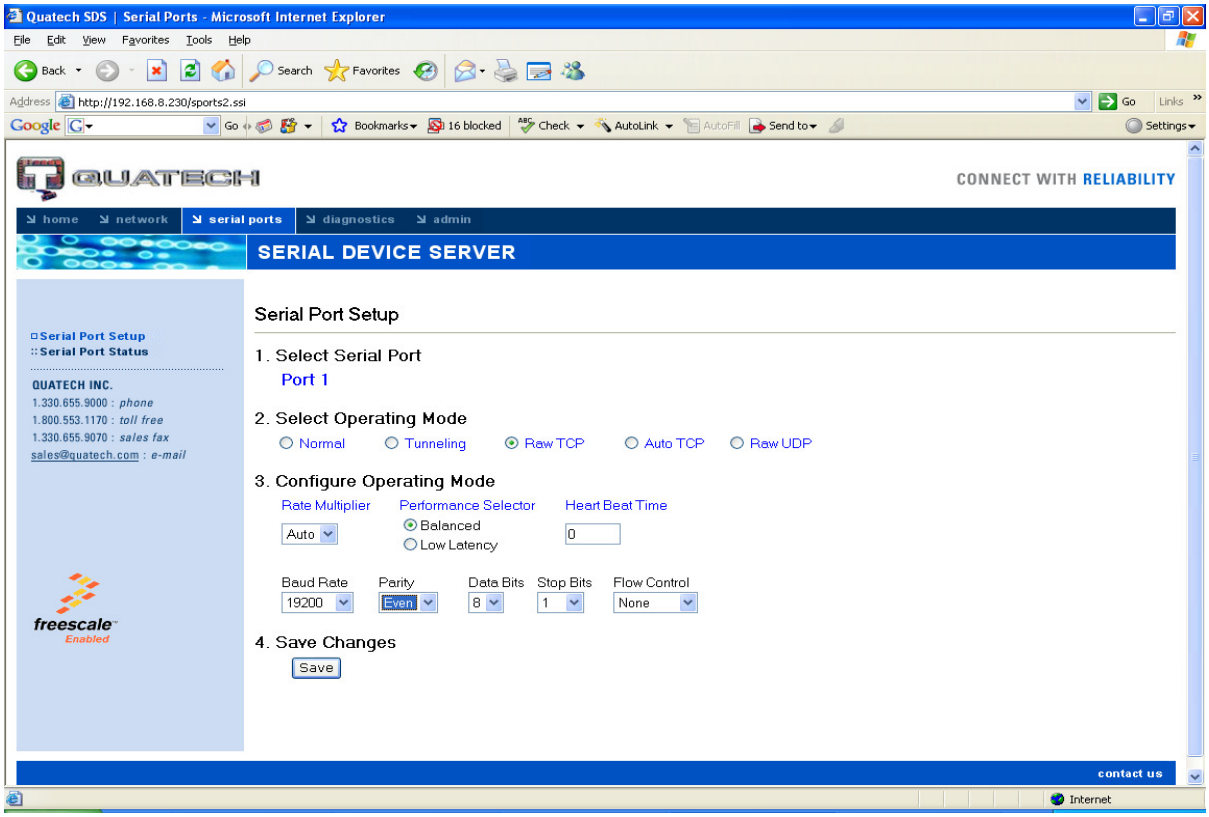
On the admin tab, you can also add/delete users for accessing this device.



Once you define user, then authentication will be required while accessing the device.


Connect to 192.168.8.230
The server 192.168.8.230 at / requires a username and password.
Warning: This server is requesting that your username and password be sent in an insecure manner (basic authentication without a secure connection).
User name:
Password:
Remember my password
OK
Cancel

Important: Go to Serial Ports tab & make sure that all selection is done as per screen shot below & save the changes.



For information purposes, initial serial port status will be shown as below,

Once some activity is initiated with ATB printer, then device will show status as in use or not.

3.4 Quatech SDS Reset to factory defaults

The Status LED works in conjunction with the Reset button as follows:

1. To restore the SDS to the factory default configuration, push in and hold the Reset button. When the Status LED starts flashing slowly, and before it starts flashing rapidly, release the button. The SDS then restarts automatically. If the Reset button is held during the first 10 seconds of bootup, the Status LED flashes at a rate of 1 flash every 2 seconds for 10 seconds. If the button is released during this time period, the configuration is reset to factory defaults.

2. To restore the SDS to the factory default firmware revision, push in and hold the Reset button. When the Status LED changes from a slow flash to a rapid flash, release the button. The SDS then restarts automatically. If the Reset button is held past the first 10 seconds of bootup, the LED flashes faster at a rate of 1 flash every second for 10 seconds. If the button is released during this time period, the SDS is reset back to the factory default firmware revision.

Note: If you press and immediately release the Reset button, the SDS restarts automatically with no changes. Also, if you continue holding the Reset button longer than 20 seconds, the Status LED stops flashing and no changes are made.

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4 ATB Tool Application

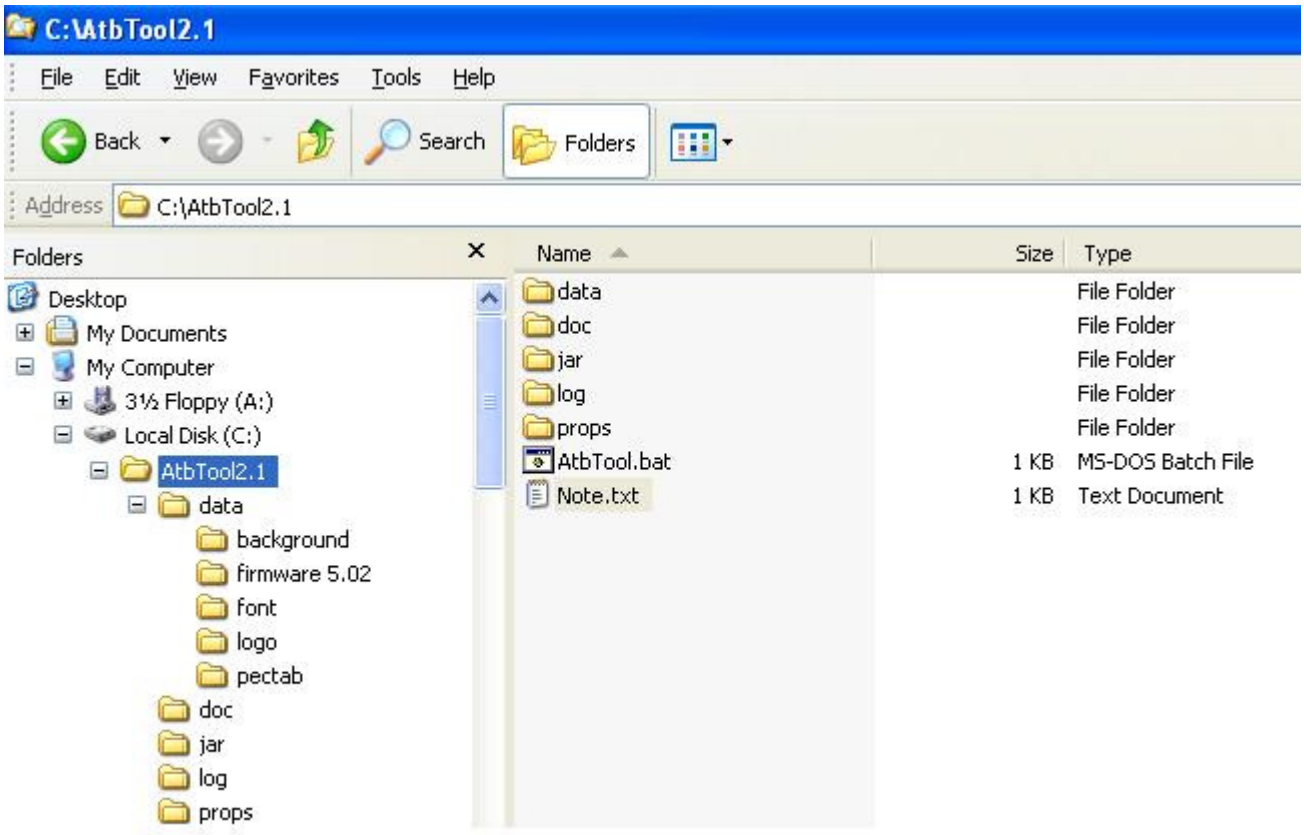
4.1 Installation

4.1.1 Download Application Files

You can use ftp (ftp machine access details, user and password from technical support) or attachment as provided.

You will see the following structure under the directory AtbTool2.1.

Here C:\AtbTool2.1 path is shown for reference only,



4.1.2 Windows Installation

1) Download the whole directory to a windows pc.

   - Directory will be expanded under AtbTool2.1 as shown above

2) The AtbTool.bat is the batch file to start this application.

   - Inside this file you have to setup the path

(You must have a JAVA runtime installed - if not download the last one from sun)

Locate AtbTool.bat file at path**AtbTool2.1\AtbTool.bat** & modify to,
Change the **ATB_HOME** depending where AtbTool2.1 folder is kept on drive
Change JAVA_HOME & **path** where Java is installed on the machine
Also **change** the drive letter if installations above are not on C drive

```
SET ATB_HOME=C:\AtbTool2.1
SET JAVA_HOME=C:\Program Files\Java\jre1.5.0_09
SET path=C:\Program Files\Java\jre1.5.0_09\bin
```

3) Change the properties files located at \AtbTool2.1\props\

- **Change** file **AtbTool2.1\props\atbtool.properties**, as shown below to set the correct path where AtbTool2.1 is installed

```
# atbtool.properties
dirPath=C:/AtbTool2.1/
logFilePath=C:/AtbTool2.1/log/
log4jFilePath=C:/AtbTool2.1/props/log4j.properties

# atb printer list file
atbPrtFilePath=C:/AtbTool2.1/props/atbprt.txt
```

File \AtbTool2.1\props\atbprt.txt should contain information about all the printers in the format specified below. Please enter proper printer info at path - \\AtbTool2.1\props\atbprt.txt for using this tool.

Sample entry can be as below,

ATB_PRINTER_NAME#IP_ADDRESS#PORT_NO

ATB_PRINTER_NAME - The name known to Euronet application
IP_ADDRESS - IP address of the connected serial device (IER 723-IP or Quatech SDS) to the atb printer
PORT_NO - Port number on which serial device will be listening

e.g.
ATB_QUATECH_1#192.168.100.101#5000
ATB_IER_723_IP_1#192.168.8.104#9100

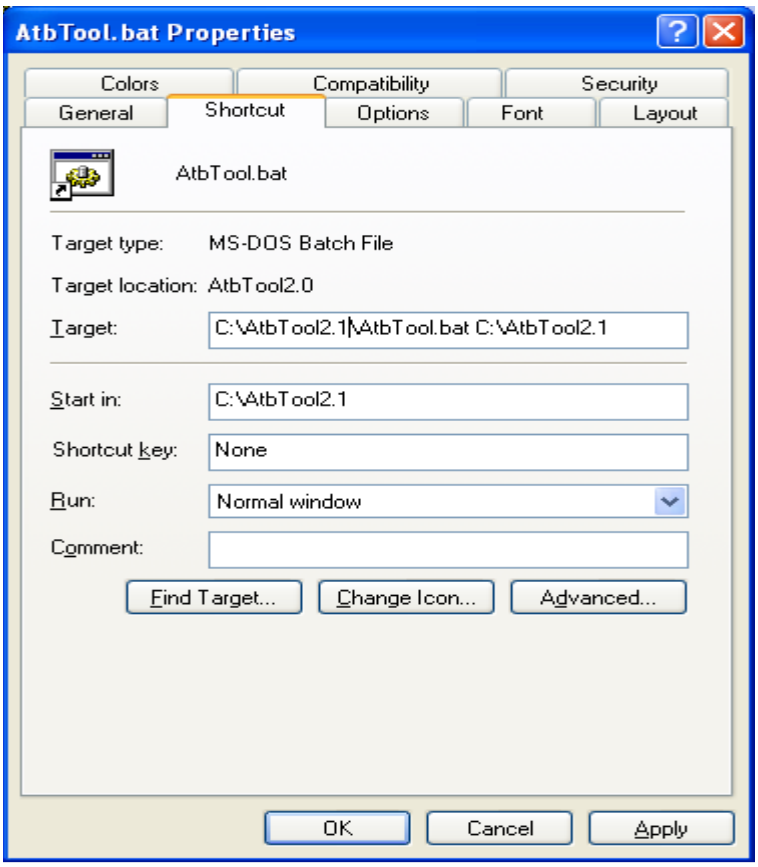
- 5000 is the default port for Quatech SDS
- 9100 is the default port for IER 723 IP device

- **Change** file **AtbTool2.1\props\log4j.properties**, as shown below to set the correct path where AtbTool2.1 is installed

```
log4j.appender.ATB.File=C:\\AtbTool2.1\\log\\ATBroot4j.log
```

4) Create a shortcut with target as say, **C:\AtbTool2.1\AtbTool.bat C:\AtbTool2.1**

- The **C:\AtbTool2.1** is the directory where you downloaded all the files. It is given as an environment parameter for the application to know where to go for retrieving files.



C:\AtbTool2.1 should be replaced everywhere with path where AtbTool2.1 is installed

5) When you click on the shortcut, the application will start.

4.1.3 Unix/Linux Installation

1) Download the whole directory to a unix/linux platform.
   - Name this directory AtbTool2.1

2) The atbtool.ksh (currently not provided, can be created using ATBTool.bat as reference) is the script file to start this app.
   Inside this file you have to setup the path and CLASSPATH (You must have a JAVA runtime installed - if not download the last one from sun). Change the path and the JAVA_HOME

```
REF_DIR=$HOME/AtbTool2.1
cd $REF_DIR
export CLASSPATH=.:$REF_DIR/jbcl.jar:$REF_DIR/AtbTool.jar:$CLASSPATH
export JAVA_HOME=/usr/bin/java
/usr/bin/java -DDIR_PATH=$REF_DIR com/reg/atb/tool/AtbToolApplication
```

3) When you run the script, the application will start.

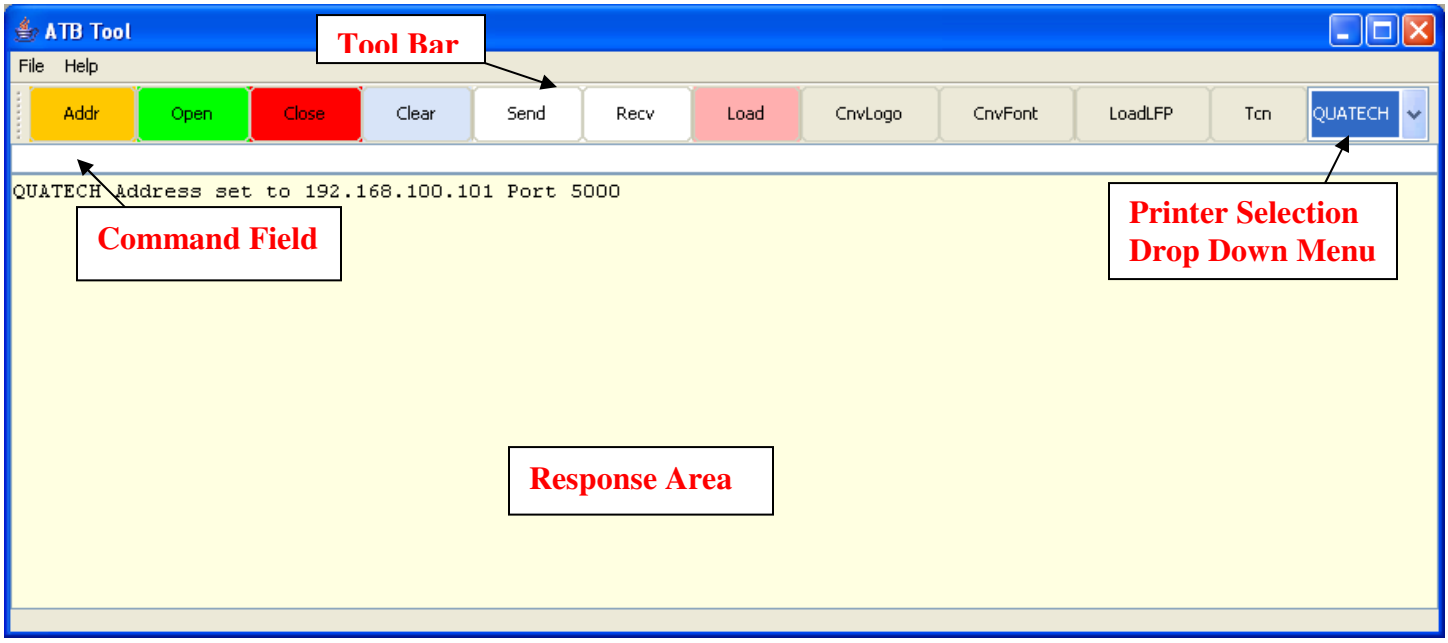
4.1.4 File Extension and Transfer Mode

All jar files must be downloaded in binary mode.
All bat, ksh, tpl, pec, PD must be downloaded in ascii mode.
All pcx, pcx.out, COD, PDcod, FON, FON.out must be downloaded in binary mode.

4.2 Run the ATB Tool Application

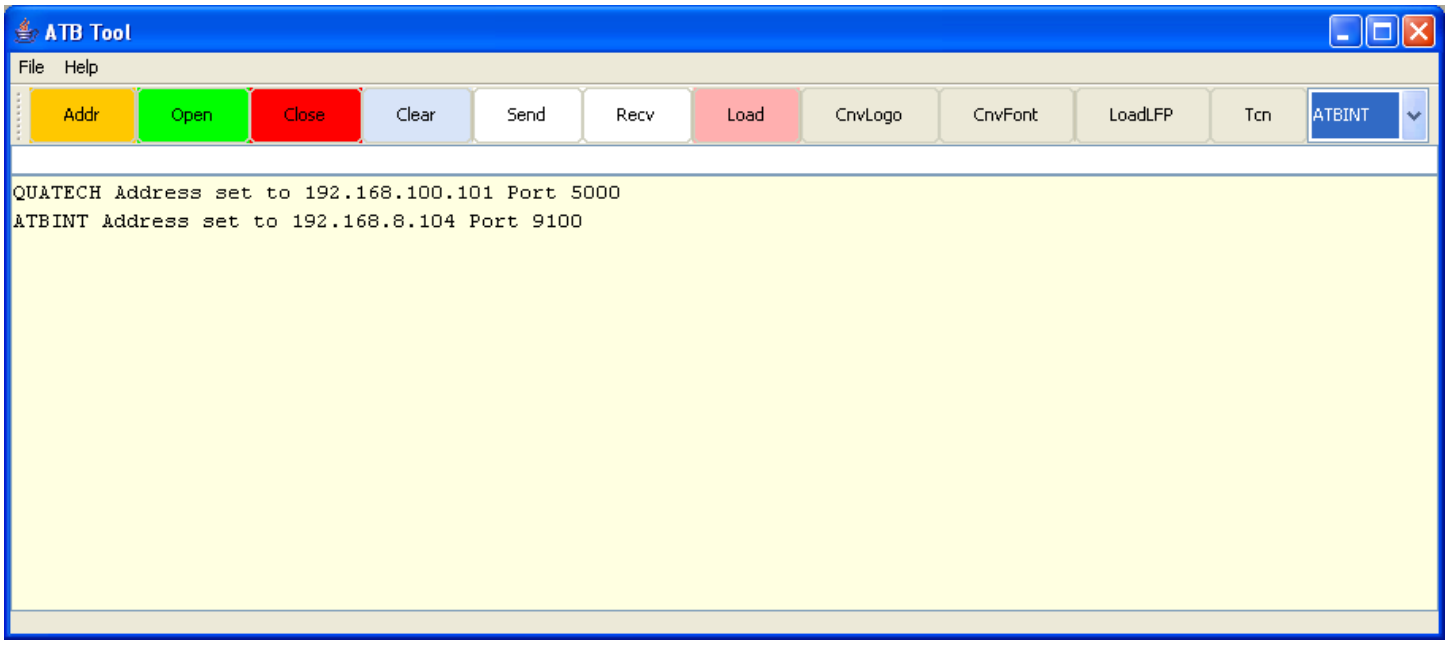
The window application is structured in 3 parts:

- The tool bar which now has printer selection drop down menu.
- The command field.
- The response area.

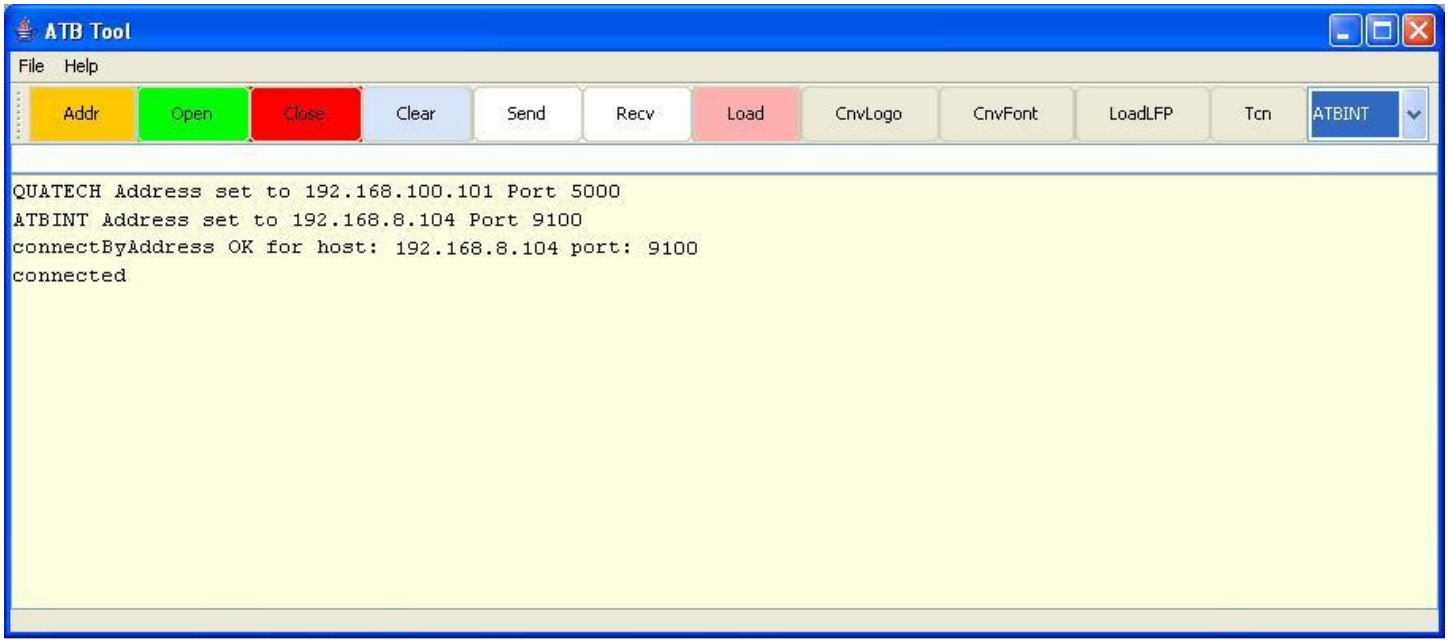


- When the tool is loaded, default printer (first one specified is read from the property file located at \AtbTool2.1\props\atbprt.txt) is selected and the ip address and associated port to access serial device is shown.

From the drop down, desired printed can be selected.



Then you have to open the connection with the printer. Click the <**Open**> button. The result is displayed in the response area.



4.3 Firmware Update

4.3.1 Program Version

In the command field, enter PV (Program Version) then click <Enter> key or <**Send**> button.
All command sent to IER printer must be uppercased.
<Enter> key in command field has the same effect as <**Send**> button.

4.3.2 Program Delete

In the command field, enter KP (Kill Program) then click <Enter> key or <**Send**> button.
This is a blocking call and the application is frozen till the IER printer answer KPOK.

4.3.3 Program Download

Click the <**LoadLFP**> button. A new window appears to select a file to download. Go to the \AtbTool2.1\data\firmware 5.02 directory and select the **SNCF502.PDcod** file then click open. This is a blocking call and the application is frozen till the IER printer reply. The program start downloading and the reception light on the printer is on. This operation will take around 12 minutes. With the end of the remote loading the parameters of the configuration by default will be taken into account. After completion just reset the IER printer parity to none and waiting delay to 0.4 seconds. Reconnect thru atbtool application and verify the program version using PV command.

4.4 Print Test after Firmware Update

After resetting the printer parity (required while using IER 723 IP device)) and waiting delay, re-open the ATB tool application. Enter the IP address and open the connection.
To have the possibility to print the test ticket we will need the following objects:

- Font 11
- Pectab PIR1, P991
- Background/Fond 88, 99
- Logo 12

4.4.1 Download Font

1) Click the <**LoadLFP**> button on the right.
2) Open the \ATBTool2.1\data**font** directory
3) Select the **FONT11.FON.out** file and click open
4) When done enter FS (font status) command

4.4.2 Download Logo

1) Click the <**LoadLFP**> button on the right.
2) Open the \ATBTool2.1\data**logo** directory

3) Select the **LOGO12.PCX.out** file and click open
4) When done enter LS (logo status) command

4.4.3 Download Fond/Background/Template

1) Click the <**Load**> button in the middle.
2) Open the \ATBTool2.1\data**background** directory
3) Select the **OK_REG_88.tpl** file and click open
4) When done enter TA (template status) command

4.4.4 Download Pectab

1) Click the <**Load**> button in the middle.
2) Open the \ATBTool2.1\data**pectab** directory
3) Select the **OK_REG_PIR.pec** file and click open
4) When done enter PS (Pectab status) command

4.4.5 Print Test Ticket

Click the <**Tcn**> button on the right.
A ticket must be printed

Note: Normally when we set up the ATB printer, all the objects will be downloaded. It is done this way to make you practice and understand the processes.

4.4.6 Close the Connection

Click the <**Close**> button.

5 IER 557/ Firmware 5.02 Memory Limits

The memory of the 557 must support the volume of following objects:

- 5 Pectab of 4K
- 20 Logos of 10K (pcx)
- 20 Templates/Backgrounds/Fonds of 1.5K
- 4 Fonts of 50K (fon format)

The memory program must be able to support an increase of 20%.

6 AEA Return Codes Examples

The printer answers the orders using pre-formatted message. This section makes it possible to list the returns in error and the action to apply in order to reset the printer in a normal operating mode.

Message	IERERR6
Signification	A requested PECTAB is missing

Information	PECTAB Reference: IERERR6E
Example	IERERR6**E**

Message	IERERR2
Signification	Order AEA sent is unknown by the printer firmware
Information	Text of the unknown AEA command
Example	IERERR2**FGT**

Message	IERERR7
Signification	No realizable order because of a title present on the paper way
Information	<<None>>
Example	IERERR7

7 Appendix

7.1 Definitions and Acronyms

Acronym / Keyword	Description
AEA	Association of European Airlines
ASCII	American Standard Code for Information Interchange
ATB	Automated Ticket and Boarding pass
CTR	Code Transaction défini dans la Pectab
CTS	Clear To Send
DSR	Data Set Ready
DTR	Data Terminal Ready
IATA	International Air Transport Association
RTS	Request To Send
SCN	Stock control number.
SNCF	Société Nationale de Chemin de Fer
SOCRATE	Système Offrant à la Clientèle la Réservation d'Affaires de Tourisme en Europe
TPV	Terminal Point de Vente
ARP	Address Resolution Protocol
DIB	Directory Information Base
DHCP	Dynamic Host Configuration Protocol
ESD	Electrostatic Discharge
FTP	File Transfer Protocol
HTML	Hypertext Markup Language
HTTP	Hypertext Transfer Protocol
IP	Internet Protocol
IPP	Internet Printing Protocol

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IPX	Internet work Packet Exchange
MAP	Management Access Program
MIB	Management Information Base
NIC	Network Interface Controller
NDPS	Novell Distributed Print Services
NDS	NetWare Directory Services
NOS	Network Operating System
PCL	Printer Control Language
PDS	Print Device Subsystem
RARP	Reverse Address Resolution Protocol
SAP	Service Advertising Protocol
SMIT	System Management Interface Tool
SNMP	Simple Network Management Protocol
SPX	Sequenced Packet Exchange
STP	Shielded Twisted Pair
TCP/IP	Transmission Control Protocol/Internet Protocol
UTP	Unshielded Twisted Pair

7.2 References

- IER Network interface documentation (NW3113A – Rev.Lev. 2 – 16Jun2003).
- CRMLB (Rev.Lev. 7 – 07Nov2006).
- AEA 2002 parametric ATB data concept Document
- AEA 94 parametric ATB data concept Document number A.A545581.TEXT(AEA1) 1/11/94
- AEA 95 parametric ATB data concept Document number AEA1.doc 6/11/95
- NT 04811A (manuel technique de l'imprimante 557 standard)
- IATA Passenger Services Conference .Résolutions Manual 722C/D/E
- Cahier des charges SNCF imprimantes ATB des TPV du 28/10/96
- SDSUserManual.pdf (Quatech Serial Device Server)

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